

What is claimed is:

- 1 1. A transformer comprising:
 - 2 an iron core;
 - 3 a first bobbin surrounding the iron core;
 - 4 a second bobbin surrounding the first bobbin;
 - 5 a secondary coil wound on the second bobbin;
 - 6 a primary coil comprising a first coil section and a second
7 coil section wound on the first bobbin, wherein the
8 coil winding density of the first coil section
9 exceeds the second coil section.
- 1 2. The transformer as claimed in claim 1, wherein the
2 secondary coil comprising a third coil section and a fourth coil
3 section wound on the second bobbin, wherein the coil winding
4 density of the fourth coil section exceeds the third coil
5 section.
- 1 3. The transformer as claimed in claim 2, wherein the
2 first coil section is arranged corresponding to the third coil
3 section.
- 1 4. The transformer as claimed in claim 2, wherein the
2 second coil section is arranged corresponding to the fourth coil
3 section.
- 1 5. The transformer as claimed in claim 1, wherein the
2 first bobbin has a protrusion separating the first and second
3 coil sections.

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4 6. The transformer as claimed in claim 2, wherein the
5 first bobbin has a protrusion separating the third and fourth
6 coil sections.